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ANNUAL REPORTS
OF THE
CAMEL SPECIALIST

For the years 1917-18 and 1918-19.

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**Annual Reports of the Camel Specialist
for the years 1917-18 and 1918-19.**

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FROM

THE HON'BLE MR. E. JOSEPH, I.C.S.,

Revenue Secretary to Government, Punjab,

TO

THE DIRECTOR OF AGRICULTURE, PUNJAB.

Dated Lahore, the 29th January 1920.

Revenue and Agriculture.

Revenue.

THE Annual Reports of the Camel Specialist for the years 1917-18 and 1918-19 have been received with your letter No. 31-45-71, dated 10th January 1920.

E. JOSEPH,

Revenue Secretary to Government, Punjab.

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FROM

S. M. JACOB, ESQUIRE, I.C.S.,
Director of Agriculture, Punjab,

TO

THE REVENUE SECRETARY TO GOVERNMENT,
PUNJAB.

Dated Lahore, the 10th January 1920.

SIR,

I HAVE the honour to forward herewith the reports of the Camel Specialist, Sohawa, for the years 1917-18 and 1918-19 (ending 31st March 1919) compiled by Captain Cross. The Laboratory was under the control of the Military authorities from the 15th June 1917 to 1st September 1919, and I therefore pass on the reports without comment.

I have the honour to be,

SIR,

Your most obedient servant,

S. M. JACOB,
Director of Agriculture, Punjab.

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THE NATIONAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

REPORT OF THE NATIONAL BUREAU OF INVESTIGATION
ON THE PROCEEDINGS OF THE SENATE COMMITTEE ON THE ACCUSATIONS
AGAINST THE PRESIDENT OF THE UNITED STATES

Presented to the Senate in 1894

By the National Bureau of Investigation
UNITED STATES DEPARTMENT OF JUSTICE

Washington, D. C.

1894

U. S. GOVERNMENT PRINTING OFFICE

1894

ANNUAL REPORT

OF THE

CAMEL SPECIALIST

For the year 1917-18.

I HELD charge of the office of the Camel Specialist under the Civil administration from the beginning of the financial year till 15th June 1917, on which date the office and staff were taken over temporarily for the duration of the war by the Military Department. I was given the rank of Captain I.A.R.O. and continued in charge of the office till 27th August 1917 when I went on leave. I was relieved by Captain W. A. Pool, I.A.R.O., who remained in charge till the end of financial year.

Mr. H. E. Cross travelled 1,519 miles by rail and 782 miles by road.

Captain W. A. Pool travelled 2,447 miles by rail and 90 miles by road.

2. No changes amongst the subordinate staff took place during the year under report.

3. Courses of instruction on the management and diseases of camels were given to officers of the Royal Army Veterinary Corps. Nine officers attended these courses.

4. One hundred and thirteen men from Camel Corps underwent a "dressers' " course; of these 83 passed the examination at the end of the course and 30 failed to do so.

5. A book "The Camel and its Diseases" written by me was published during the year under report.

6. *Jhooling*.—A large number of camels were treated by Captain W. A. Pool by the Potassium Permanganate method as recommended by me in my article on *Jhooling* (*vide* Bulletin No. 72, Agricultural Research Institute, Pusa), and excellent results obtained.

7. *Mange*.—Experiments were carried out by Captain W. A. Pool regarding the practicability of using a "bath" instead of the smearing method in the treatment of mange in camels. He recommends (1) a bath 9 feet long \times 3 feet wide. (2) 250 gallons of the "dip" as the minimum quantity required. (3) The bath should not be shallow or wastage of the dipping fluid from splashing results. (4) The slope into the bath must not be too abrupt. (5) The surface of the slopes leading into and out of the bath and the floor of the bath must not be slippery.

Captain W. A. Pool found that he could dip ten camels in one hour, giving each camel 5 minutes in the bath from the time it is got in. A full report on the results obtained was sent by him to the Director of Veterinary Services, Army Head-quarters.

8. Experiments commenced by Captain Cross were continued by Captain Pool regarding—

- (1) the course that surra runs in the camel ;
- (2) the difference between camel surra and horse surra ;
- (3) the curative treatment of surra by Tartar emetic.

As the experiments are not yet complete it is impossible to draw any definite conclusions, but it would appear that—

- (i) very few camels recover from naturally acquired surra ;

- (ii) the disease in the majority of camels is of the chronic type ;
- (iii) horses inoculated with camel surra do not always lose condition : some remain in perfect health, to all appearances, for many months, when they suddenly develop cerebral symptoms and then die within a few days ;
- (iv) Tartar emetic in large doses gives considerable promise of success for the cure of surra.

9. *Flies*.—A large amount of work was done by Captain W. A. Pool in the life history of flies.

10. *Inspection*.—The camels of various Corps were frequently examined for the detection of surra and advice given regarding mange and other diseases, elimination of surra infected animals, and grazing areas ; full reports being sent to the military officers concerned.

11. Veterinary Inspector Kahn Singh and Veterinary Assistant Abdulla Khan deserve great credit for the way they carried out their duties throughout the year. B. Sham Shanker carried out the office duties most satisfactorily.

H. E. CROSS, I.C.V.D., M.R.C.V.S., D.V.H., A.Sc.,

Camel Specialist, Sohawa.

ANNUAL REPORT

OF THE

CAMEL SPECIALIST

For the year 1918-19.

CAPTAIN W. A. Pool held charge of the office during the year.

With the exception of Muhammad Zaman who was appointed Laboratory Assistant there was no change in the subordinate staff.

Captain W. A. Pool travelled 4,673 miles by rail and 821 miles by road.

Courses of training.—Ninety-nine sarwans from various Corps underwent a course of training as Veterinary dressers. Sixty-two passed the examination at the end of the course and thirty-seven failed to do so.

Publications.—A pamphlet on the management and handling of camels and simple methods of treatment of wounds and diseases was published in Urdu for the use of Veterinary dressers.

Anti-fly emulsion experiments.—Experiments on a large scale were carried out in conjunction with Mr. Howlett, the Imperial Pathological Entomologist, Messrs. Patel and Sen, Assistants to the Pathological Entomologist, and five Officers of the Royal Army Veterinary Corps.

The first emulsion used consisted of Tar oil and fuel oil (equal parts). As this emulsion was found to blister the camels, a 2nd emulsion consisting of tar oil, fuel oil and sweet oil (Til) (equal parts) was used.

Captain Pool recommends further experiments be carried out before definite conclusions regarding the efficacy of this emulsion can be drawn. A full report of these experiments was submitted to the Military authorities.

Inspections.—The camels of the Camel Department of the Alwar State were inspected and recommendations for dealing with "Surra" and the general management of the camels of the Camel Department of the State were submitted to His Highness' Government. A detailed report of the inspection was submitted to the Military authorities.

A large number of rakhs were examined in compliance with order from the Military authorities and a detailed report submitted regarding the grazing and prevalence of blood-sucking flies.

Many inspections and examinations of camels of different Camel Corps were made and reports submitted to the Military authorities concerned.

Surra.—The investigations on the course that surra runs in the camel and the course that "Camel" surra runs in equines were continued. These experiments will shortly be completed and a detailed report submitted.

The camels treated by Tartar emetic were kept under observation, an examination of the blood of each camel being made daily, and although the treatment by Tartar emetic shows some promise of success, the treated camels must be kept under observation for a further period of time and a large number of camels submitted to treatment before reliable conclusions can be drawn.

Veterinary Inspector Kahn Singh and Veterinary Assistant Abdulla Khan, as in previous years, did excellent work throughout the year under report. Babu Sham Shanker deserves credit for the manner in which he carried out the office work.

H. E. CROSS, I.C.V.D., M.R.C.V.S., D.V.H., A.Sc.,

Camel Specialist, Sohawa,

ANNUAL REPORT

CAMMEL SPECIALLY

For the year 1918-19

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